

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	"6138092".pn.	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:28
L3	1	"6138092".pn.	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:40
L4	0	"6138092".pn. and gender\$4	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:40
L5	0	"6138092".pn. and sex	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:40
L6	0	"6138092".pn. and (mal\$4 femal\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:40
L7	1	"6138092".pn. and estimat\$4	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:41
L8	0	"6138092".pn. and estimat\$4 same nois\$4	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:41
L9	1	"6138092".pn. and estimat\$4 same synthes\$6	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:42
L10	18	cod\$4.ti. and (gender\$4 sex\$4) same (speech\$4 voic\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 14:43
S1	208	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6))	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:35
S2	60	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:35
S3	25	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:12
S4	1	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and (gender\$4 sex\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:37

## EAST Search History

S5	25	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:09
S6	25	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:37
S7	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:38
S8	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:38
S9	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4 and synthe\$7	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:38
S10	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4 and synthe\$7 and cut\$4off\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:39

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S11	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4 and synthe\$7 and cut\$4off\$4 with frequen\$6	US-PGPUB; USPAT	OR	OFF	2007/06/11 08:39
S12	2	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4 and synthe\$7 and cut\$4off\$4 with frequen\$6 and decompos\$9	US-PGPUB; USPAT	OR	OFF	2007/06/12 12:56
S13	22	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and excit\$7 and energ\$7 and (voic\$4 near4 index\$4) and decod\$4 and synthe\$7 and cut\$4off\$4 with frequen\$6 and (bit bits)	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:07
S14	3	S6 not S13	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:07
S15	25	(speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:27
S16	1	"5884010".pn. and (speech\$4 voic\$4) and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:29

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S17	1	"5884010".pn. and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:45
S18	0	"5884010".pn. and (lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:46
S19	54	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:00
S20	23	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and ((ambien\$6 background\$4) near4 nois\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:47
S21	32	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and pitch\$4 near4 correlat\$6	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:48
S22	32	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 10:02
S23	1	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and pitch\$4 near4 correlat\$6 and index\$4 and (gender\$4 sex\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/11 09:53
S24	5	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and pitch\$4 near4 correlat\$6 and index\$4 and decompos\$8	US-PGPUB; USPAT	OR	OFF	2007/06/11 10:04

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S25	32	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and pitch\$4 near4 correlat\$6 and index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/11 10:30
S26	0	"6014622".pn. and nois\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 12:56
S27	1	"6014622".pn. and low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 12:56
S28	54	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/12 12:58
S29	53	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and (speech\$4 voic\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:00
S30	35	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and (speech\$4 voic\$4) and pitch\$4 with correlat\$6	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:01
S31	35	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and (speech\$4 voic\$4) and pitch\$4 with correlat\$6 and excit\$7	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:01
S32	33	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and (speech\$4 voic\$4) and pitch\$4 with correlat\$6 and excit\$7 and energ\$6	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:02
S33	33	(lowpass\$4 near3 filter\$4) and ((analysis\$4 near5 synthe\$7) or (CELP) or (code\$6 near excit\$6 near linear\$4 near predict\$6)) and (open\$4 near3 loop\$4) and (speech\$4 voic\$4) and pitch\$4 with correlat\$6 and excit\$7 and energ\$6 and synthe\$8	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:42
S34	1	"5809459".pn.	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:42

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S35	1	"5809459".pn. and nois\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:45
S36	72	decompos\$6 with nois\$4 with speech\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:55
S37	79	decompos\$6 with nois\$4 with (speech\$4 voic\$5)	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:56
S38	1	decompos\$6 with nois\$4 with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:57
S39	348	nois\$4 with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:58
S40	299	(divid\$4 separat\$4 decompos\$8) and nois\$4 with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:58
S41	3491983	(divid\$4 separat\$4 decompos\$8) with\ nois\$4 with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 13:58
S42	13	(divid\$4 separat\$4 decompos\$8) with nois\$4 with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:31
S43	0	"6940454".pn. and bandwidth\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:30
S44	13	(divid\$4 separat\$4 decompos\$8) with (non\$4voic\$4 nois\$4) with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:32
S45	13	(divid\$4 separat\$4 decompos\$8) with (non\$4voic\$4 nois\$4 non\$4speech\$4) with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:34
S46	213	(divid\$4 separat\$4 decompos\$8) with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:33
S47	25	(divid\$4 separat\$4 decompos\$8) with (speech\$4 voic\$5) same low\$4pass\$4 same nois\$6	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:42
S48	22	(divid\$4 separat\$4 decompos\$8) with (non\$4voic\$4 nois\$4 non\$4speech\$4 un\$4voic\$4) with (speech\$4 voic\$5) same low\$4pass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:34
S49	0	"5809549".pn. and CELP\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:40
S50	0	"5809459".pn. and celp\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:40
S51	1	"5809459".pn. and linear\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:41
S52	1	"5809459".pn. and linear\$4 same exci\$7	US-PGPUB; USPAT	OR	OFF	2007/06/12 14:41

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S53	4	(divid\$4 separat\$4 decompos\$8) with (speech\$4 voic\$5) same low\$4pass\$4 same nois\$6 and celp\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:24
S54	1	(gender\$4 sex\$4) and CELP\$4 and lowpass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:28
S55	60	(gender\$4 sex\$4) and CELP\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:28
S56	125	(gender\$4 sex\$4) and lowpass\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:28
S57	44	(gender\$4 sex\$4) and lowpass\$4 and (speech\$4 voic\$4 near5 process\$7)	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:29
S58	9	(gender\$4 sex\$4) same (speech\$4 voic\$4) and lowpass\$4 and (speech\$4 voic\$4 near5 process\$7)	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:29
S59	0	"20040138874".pn. and pitch\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:38
S60	1	"5809459".PN. AND PITCH\$5	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:40
S61	1	"5809459".PN. ANd index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:40
S62	1	"5809459".PN. ANd index\$4 same (speech\$4 voic\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:45
S63	1	"5809459".PN. ANd decod\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:46
S64	1646950	"5809459".PN. ANd decod\$4 same transmit\$4 transfer\$4	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:45
S65	0	"5809459".PN. ANd decod\$4 same (transmit\$4 transfer\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:45
S66	1	"5809459".PN. ANd synthe\$8	US-PGPUB; USPAT	OR	OFF	2007/06/12 15:46
S67	3	("5809459" "6308155").pn. or ("20040138874").did.	US-PGPUB; USPAT	OR	OFF	2007/06/14 06:37
S68	3	("5809459" "6308155").pn. or ("20040138874").did. and (CELP\$4 or (code\$4 near3 linear\$4 near excit\$6) or (analysis\$4 near3 synthe\$7))	US-PGPUB; USPAT	OR	OFF	2007/06/14 06:39
S69	2	((("5809459" "6308155").pn. or ("20040138874").did.) and (CELP\$4 or (code\$4 near3 linear\$4 near excit\$6) or (analysis\$4 near3 synthe\$7))	US-PGPUB; USPAT	OR	OFF	2007/06/14 06:58
S70	3	((("5809459" "6308155").pn. or ("20040138874").did.) and nois\$5	US-PGPUB; USPAT	OR	OFF	2007/06/14 06:58
S71	1	((("5809459" "6308155").pn. or ("20040138874").did.) and nois\$5 same estimat\$7	US-PGPUB; USPAT	OR	OFF	2007/06/14 07:00

## EAST Search History

S72	66088	low\$4pass\$4 near4 filter\$4	US-PGPUB; USPAT	OR	OFF	2007/06/14 07:00
S73	14803	low\$4pass\$4 near4 filters	US-PGPUB; USPAT	OR	OFF	2007/06/14 07:00
S74	73	low\$4pass\$4 near4 filters and celp\$4	US-PGPUB; USPAT	OR	OFF	2007/06/14 07:00
S75	73	low\$4pass\$4 near4 filters and celp\$4 and (speech\$4 voic\$4)	US-PGPUB; USPAT	OR	OFF	2007/06/14 07:24
S76	54	low\$4pass\$4 near4 filters and celp\$4 and (speech\$4 voic\$4) same index\$4	US-PGPUB; USPAT	OR	OFF	2007/06/14 09:01
S77	1	"5809459".pn. and nois\$4	US-PGPUB; USPAT	OR	OFF	2007/06/14 09:01
S78	1929	filter\$4 with transmi\$7 with (decoder\$4 coder\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 11:54
S79	1678921	filter\$4 with transmi\$7 with (decoder\$4 coder\$4) and cut\$4off\$4 frequen\$7	US-PGPUB; USPAT	OR	OFF	2007/10/08 11:55
S80	159	filter\$4 with transmi\$7 with (decoder\$4 coder\$4) and cut\$4off\$4 near3 frequen\$7	US-PGPUB; USPAT	OR	OFF	2007/10/08 11:55
S81	8	filter\$4 with transmi\$7 with (decoder\$4 coder\$4) same cut\$4off\$4 near3 frequen\$7	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:16
S82	199	(gao and yang).in.	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:05
S83	82	(gao and yang).in. and "704"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:06
S84	7453	(voic\$4 speech\$4) same (decod\$4 cod\$4) same (filter\$4 cut\$4off\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:18
S85	153	(voic\$4 speech\$4) same (decod\$4 cod\$4) same (filter\$4 with cut\$4off\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:19
S86	54	(voic\$4 speech\$4) same nois\$4 same (decod\$4 cod\$4) same (filter\$4 with cut\$4off\$4)	US-PGPUB; USPAT	OR	OFF	2007/10/08 12:20